

## **STORMWATER MANAGEMENT CONCEPT REQUIREMENTS**

### **ALL STORMWATER MANAGEMENT CONCEPT APPLICATIONS:**

1. Submit SWM concept application (application must be fully completed noting concept type and/or resubmittal). For resubmittals, only a copy of the application is necessary.
2. Submit cover letter describing request and providing any necessary justifications. Submit one set of plans and comps.
3. If the site drains to an existing storm drain system, provide a schematic drawing of the storm drain layout on 200' scale topography detailing the system from point of inflow to the existing outfall. Describe condition of the outfall. Check for obvious capacity problems for 10-year flows.
4. Describe conditions downstream from site. Identify any 10 or 100-year flooding/flowpath problems
5. Show soil types using the current Montgomery County Soil Conservation District soil mapping.
6. Provide one copy of downstream property owner notifications if a point discharge is proposed. Use MCDPS standard notification letter and send by Certified Mail.
7. Provide one copy of the approved Natural Resources Inventory and Forest Stand Delineation for developments that are required to go through preliminary plan or site plan review with the MNCPPC.
8. The stormwater management concept plan of the proposed development must delineate:
  - a. An accurate location map with proposed development area outlined.
  - b. Existing and proposed grades.

- c. Impervious areas and improvements, include buildings, utilities, etc.
  - d. Existing and proposed drainage areas.
  - e. Any off-site drainage areas; describe their land use and size.
  - f. Any existing ponds or other SWM facilities.
  - g. streets
  - h. parking lots
  - i. topography
  - j. 100-year floodplain(s) and flow paths
  - k. existing and proposed storm drains and associated easements
  - l. water and sewer lines and associated easements
  - m. other utilities, including any PUE or PIE
  - n. major building locations
  - o. existing and proposed utilities, PUE and PIE
  - p. 100-year floodplain
9. Provide a drainage area map including any off-site areas draining into the proposed development.

REQUESTS FOR CONCEPTS WITH ONSITE STORMWATER MANAGEMENT MUST  
INCLUDE THE FOLLOWING INFORMATION:

1. Provide a hazard classification statement for any dams (more extensive dam breach submittals may be necessary).
2. The stormwater management concept plan should delineate existing and proposed grading, location, and type of all proposed on-site SWM facilities.
3. For quantity control provide: preliminary design computations showing peak flows for the two-year storm computed according to SCS TR-55, pre and post-development (use meadow or woodland as the pre-developed land use). Also show the estimated volume of quantity storage required.
4. For quality control - provide details/descriptions of water quality measures; always investigate infiltration first. Use soil borings and infiltration tests to explore feasibility of infiltration prior to using other types of water quality control methods.
5. Provide soils investigation and infiltration test results using the approved MCDPS testing method, only if infiltration is proposed.
6. Provide a water table determination for areas proposed with a surface sand filter facility.
7. When a surface sand filter is proposed for water quality, provide a schematic showing the sizes, locations, and "daylighting" of sand filters for review and approval.
8. Show manhole access to all underground structures.
9. All covered parking areas, i.e., underground parking, must drain to WSSC sanitary sewer, and not to any stormwater management facility.
10. All SWM facilities located in residential developments must be located on recorded outlots with common area access to a public right-of-way. Access must be a minimum of 12 feet wide, and slope no more than 10% (15% with mechanical stabilization).

11. In residential developments, flowsplitting devices must be located on outlots.

REQUESTS FOR WAIVERS OF STORMWATER MANAGEMENT MUST INCLUDE THE FOLLOWING:

1. FOR ALL REQUESTS:

- o Indicate appropriate waiver sub-section within the Executive Regulations 5-90. If the site does not qualify for a standard contribution category, and a request for a waiver is being sought, clearly describe why on-site control can not be provided or is not justified.

2. FOR QUANTITY CONTROL:

- a. Provide hydrologic computations reflecting the two-year pre-development and post-development runoff peak discharge using SCS methodology. Entire drainage area evaluations may be required if deemed necessary by the Department.
- b. Provide computations and a statement addressing the adequacy of existing public or private drainage systems that the site may drain to.

3. FOR QUALITY CONTROL:

- o Provide detailed justification as to why a waiver of quality control is appropriate.

Miscellaneous:

1. Some sites may require abandonment of existing SWM maintenance easements to be out at the detailed permit plan stage.
2. Class III, IV, and high quality class I watersheds require open section roadways for R-90 residential use, unless waived by the Subdivision Development Section of DPS in consultation with the Water Resources Section.

3. Sites which have indications or soil boring reports that indicate blasting as the only means for excavation for SWM installation, shall submit a method for approval as to how the blasting procedure will occur without diminishing the integrity and function of the proposed facility or relocate the facility.

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